



STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/562,134
 Source: IFWP
 Date Processed by STIC: 1/10/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
 U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/562,134

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
(OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
(NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/562,134

DATE: 01/10/2006
TIME: 09:40:07

Input Set : A:\PCTEP04007090.txt
Output Set: N:\CRF4\01102006\J562134.raw

3 <110> APPLICANT: TOOKE, NIGEL
4 EKSTROM, BJORN
6 <120> TITLE OF INVENTION: NEW METHOD
8 <130> FILE REFERENCE: 71870-82448
C 10 <140> CURRENT APPLICATION NUMBER: US/10/562,134
C--> 11 <141> CURRENT FILING DATE: 2005-12-23
13 <150> PRIOR APPLICATION NUMBER: SE 0301951-0
14 <151> PRIOR FILING DATE: 2003-06-30
16 <150> PRIOR APPLICATION NUMBER: US 60/481,043
17 <151> PRIOR FILING DATE: 2003-06-30
19 <150> PRIOR APPLICATION NUMBER: US 60/481,319
20 <151> PRIOR FILING DATE: 2003-09-01
22 <160> NUMBER OF SEQ ID NOS: 30
24 <170> SOFTWARE: PatentIn version 3.2
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 27
28 <212> TYPE: DNA
29 <213> ORGANISM: Artificial
31 <220> FEATURE:
32 <223> OTHER INFORMATION: Artificial
34 <400> SEQUENCE: 1
35 cagcagcagc agcagcagca gcagcag
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 6
40 <212> TYPE: DNA
41 <213> ORGANISM: Artificial
43 <220> FEATURE:
44 <223> OTHER INFORMATION: Artificial
46 <400> SEQUENCE: 2
47 gtcgtc
50 <210> SEQ ID NO: 3
51 <211> LENGTH: 12
52 <212> TYPE: DNA
53 <213> ORGANISM: Artificial
55 <220> FEATURE:
56 <223> OTHER INFORMATION: Artificial
58 <400> SEQUENCE: 3
59 gtcgtcgtcg tc
62 <210> SEQ ID NO: 4
63 <211> LENGTH: 15
64 <212> TYPE: DNA
65 <213> ORGANISM: Artificial
67 <220> FEATURE:

ppr 1-4, 6
**Does Not Comply
Corrected Diskette Needed**

global error

*insufficient response - give source of genetic material
(see item 11 on
27 Error
summary
sheet)*

6

12

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/562,134

DATE: 01/10/2006
TIME: 09:40:07

Input Set : A:\PCTEP04007090.txt
Output Set: N:\CRF4\01102006\J562134.raw

68 <223> OTHER INFORMATION: Artificial	
70 <400> SEQUENCE: 4	15
71 gtcgtcgtcg tcgtc	
74 <210> SEQ ID NO: 5	
75 <211> LENGTH: 21	
76 <212> TYPE: DNA	
77 <213> ORGANISM: Artificial	
79 <220> FEATURE:	
80 <223> OTHER INFORMATION: Artificial	
82 <400> SEQUENCE: 5	21
83 gtcgtcgtcg tcgtcgtcgt c	
86 <210> SEQ ID NO: 6	
87 <211> LENGTH: 27	
88 <212> TYPE: DNA	
89 <213> ORGANISM: Artificial	
91 <220> FEATURE:	
92 <223> OTHER INFORMATION: Artificial	
94 <400> SEQUENCE: 6	27
95 cgccggcgcc gccggcgccg gcggcgg	
98 <210> SEQ ID NO: 7	
99 <211> LENGTH: 6	
100 <212> TYPE: DNA	
101 <213> ORGANISM: Artificial	
103 <220> FEATURE:	
104 <223> OTHER INFORMATION: Artificial	
106 <400> SEQUENCE: 7	6
107 gccgcc	
110 <210> SEQ ID NO: 8	
111 <211> LENGTH: 12	
112 <212> TYPE: DNA	
113 <213> ORGANISM: Artificial	
115 <220> FEATURE:	
116 <223> OTHER INFORMATION: Artificial	
118 <400> SEQUENCE: 8	12
119 gccgccgccg cc	
122 <210> SEQ ID NO: 9	
123 <211> LENGTH: 15	
124 <212> TYPE: DNA	
125 <213> ORGANISM: Artificial	
127 <220> FEATURE:	
128 <223> OTHER INFORMATION: Artificial	
130 <400> SEQUENCE: 9	15
131 gccgccgccg ccgcc	
134 <210> SEQ ID NO: 10	
135 <211> LENGTH: 21	
136 <212> TYPE: DNA	
137 <213> ORGANISM: Artificial	
139 <220> FEATURE:	
140 <223> OTHER INFORMATION: Artificial	

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/562,134

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Input Set : A:\PCTEP04007090.txt
 Output Set: N:\CRF4\01102006\J562134.raw

142 <400> SEQUENCE: 10	21
143 gccgcgcgcgc cgcgcgcgcgc c	
146 <210> SEQ ID NO: 11	
147 <211> LENGTH: 20	
148 <212> TYPE: DNA	
149 <213> ORGANISM: Artificial	
151 <220> FEATURE:	
152 <223> OTHER INFORMATION: Artificial	
154 <400> SEQUENCE: 11	20
155 atgggtgcacc tgactcctga	
158 <210> SEQ ID NO: 12	
159 <211> LENGTH: 21	
160 <212> TYPE: DNA	
161 <213> ORGANISM: Artificial	
163 <220> FEATURE:	
164 <223> OTHER INFORMATION: Artificial	
166 <400> SEQUENCE: 12	21
167 ggagaagtct gccgttactg c	
170 <210> SEQ ID NO: 13	
171 <211> LENGTH: 41	
172 <212> TYPE: DNA	
173 <213> ORGANISM: Artificial	
175 <220> FEATURE:	
176 <223> OTHER INFORMATION: Artificial	
178 <400> SEQUENCE: 13	41
179 gcagtaacgg cagacttctc ctcaggagtc aggtgcacca t	
182 <210> SEQ ID NO: 14	
183 <211> LENGTH: 41	
184 <212> TYPE: DNA	
185 <213> ORGANISM: Artificial	
187 <220> FEATURE:	
188 <223> OTHER INFORMATION: Artificial	
190 <400> SEQUENCE: 14	41
191 atgggtgcacc tgactcctga ggagaagtct gccgttactg c	
194 <210> SEQ ID NO: 15	
195 <211> LENGTH: 15	
196 <212> TYPE: DNA	
197 <213> ORGANISM: Artificial	
199 <220> FEATURE:	
200 <223> OTHER INFORMATION: Artificial	
202 <400> SEQUENCE: 15	15
203 acggcagact tctcc	
206 <210> SEQ ID NO: 16	
207 <211> LENGTH: 36	
208 <212> TYPE: DNA	
209 <213> ORGANISM: Artificial	
211 <220> FEATURE:	
212 <223> OTHER INFORMATION: Artificial	
214 <400> SEQUENCE: 16	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/562,134

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Input Set : A:\PCTEP04007090.txt
Output Set: N:\CRF4\01102006\J562134.raw

```

215 cgggcgggcg gcggcgggcg gggcgggcg cgggcg      36
218 <210> SEQ ID NO: 17
219 <211> LENGTH: 30
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Artificial
226 <400> SEQUENCE: 17
227 ctgctgctgc tgctgctgct gctgctgctg      30
230 <210> SEQ ID NO: 18
231 <211> LENGTH: 60
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Artificial
238 <400> SEQUENCE: 18
239 ctgctgctgc tgctgctgct gctgctgctg ctgctgctgc tgctgctgct gctgctgctg      60
242 <210> SEQ ID NO: 19
243 <211> LENGTH: 9
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial
247 <220> FEATURE:
248 <223> OTHER INFORMATION: Artificial
250 <400> SEQUENCE: 19
251 cagcagcag
254 <210> SEQ ID NO: 20
255 <211> LENGTH: 59
256 <212> TYPE: DNA
257 <213> ORGANISM: Streptococcus salivarius
260 <220> FEATURE:
261 <221> NAME/KEY: misc_feature
262 <222> LOCATION: (34)..(36)
263 <223> OTHER INFORMATION: n is a, c, g, or t
265 <400> SEQUENCE: 20
W--> 266 taggtgaatt aataagccta gggacttgat tttnnncaag ttacggcgag tgaactggc      59
269 <210> SEQ ID NO: 21
270 <211> LENGTH: 59
271 <212> TYPE: DNA
272 <213> ORGANISM: Streptococcus vestibularis
275 <220> FEATURE:
276 <221> NAME/KEY: misc_feature
277 <222> LOCATION: (34)..(36)
278 <223> OTHER INFORMATION: n is a, c, g, or t
280 <400> SEQUENCE: 21
> 281 taggtgaatc aataagccta gggacttgat tttnnncaag ttacggcgag cgaactagc      59
284 <210> SEQ ID NO: 22
285 <211> LENGTH: 59
286 <212> TYPE: DNA
287 <213> ORGANISM: Streptococcus orisratti

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OK-good

RAW SEQUENCE LISTING

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TIME: 09:40:07

Input Set : A:\PCTEP04007090.txt

Output Set: N:\CRF4\01102006\J562134.raw

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289 <400> SEQUENCE: 22
290 taggcgaaaa aataagccta ggggggtagt cttttctgcc ctacggcgag taaaatggc 59
293 <210> SEQ ID NO: 23
294 <211> LENGTH: 59
295 <212> TYPE: DNA
296 <213> ORGANISM: Streptococcus canis
299 <220> FEATURE:
300 <221> NAME/KEY: misc_feature
301 <222> LOCATION: (29)..(30)
302 <223> OTHER INFORMATION: n is a, c, g, or t
304 <220> FEATURE:
305 <221> NAME/KEY: misc_feature
306 <222> LOCATION: (35)..(36)
307 <223> OTHER INFORMATION: n is a, c, g, or t
309 <400> SEQUENCE: 23
W--> 310 taggcgaaca aataagccta gggatgtggn cttgncaca ttacggcgga gaaaatggc 59
313 <210> SEQ ID NO: 24
314 <211> LENGTH: 59
315 <212> TYPE: DNA
316 <213> ORGANISM: Streptococcus equi zooepid
319 <220> FEATURE:
320 <221> NAME/KEY: misc_feature
321 <222> LOCATION: (29)..(30)
322 <223> OTHER INFORMATION: n is a, c, g, or t
324 <220> FEATURE:
325 <221> NAME/KEY: misc_feature
326 <222> LOCATION: (36)..(36)
327 <223> OTHER INFORMATION: n is a, c, g, or t
329 <400> SEQUENCE: 24
W--> 330 taggcgaaca aataagccta gggatgtggn tttgancaca ttacggcgag tgaaaaggc 59
333 <210> SEQ ID NO: 25
334 <211> LENGTH: 59
335 <212> TYPE: DNA
336 <213> ORGANISM: Streptococcus dysgal equi
339 <220> FEATURE:
340 <221> NAME/KEY: misc_feature
341 <222> LOCATION: (29)..(30)
342 <223> OTHER INFORMATION: n is a, c, g, or t
344 <220> FEATURE:
345 <221> NAME/KEY: misc_feature
346 <222> LOCATION: (35)..(36)
347 <223> OTHER INFORMATION: n is a, c, g, or t
349 <400> SEQUENCE: 25
r -> 350 taggcgaaca aataagccta gggatgtggn cttanntaca ttacggcgaa gaaaatggc 59
353 <210> SEQ ID NO: 26
354 <211> LENGTH: 59
355 <212> TYPE: DNA
356 <213> ORGANISM: Streptococcus parauberis
359 <220> FEATURE:

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/562,134

DATE: 01/10/2006
TIME: 09:40:08

Input Set : A:\PCTEP04007090.txt
Output Set: N:\CRF4\01102006\J562134.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:20; N Pos. 34,35,36
Seq#:21; N Pos. 34,35,36
Seq#:23; N Pos. 29,30,35,36
Seq#:24; N Pos. 29,30,36
Seq#:25; N Pos. 29,30,35,36
Seq#:26; N Pos. 28,29,30,31
Seq#:27; N Pos. 29,30
Seq#:28; N Pos. 29,30,35,36
S 1:29; N Pos. 29,30,35,36
Seq#:30; N Pos. 33,36

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19

ignore this

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/562,134

DATE: 01/10/2006

TIME: 09:40:08

Input Set : A:\PCTEP04007090.txt

Output Set: N:\CRF4\01102006\J562134.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
 L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
 L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
 L:281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
 L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
 L:330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
 L:350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
 L:365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
 L:380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
 L:400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
 L:420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
 L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0